

# Active Recombinant Bovine TMPRSS15 Protein (200 aa), His-tagged

**Cat. No.** TMPRSS15-158T    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Bovine Enterokinase (rbEK) as the light chain is a single glycosylated polypeptide chain containing 200 amino acids. A fully biologically active molecule, rbEK has a molecular mass of 22.7 kDa and is obtained by proprietary chromatographic techniques.

**Species**      Bovine

**Source**      P.pastoris

**ProteinLength**      200

**Description**      Enterokinase (EK) is an enzyme produced by cells of the duodenum and involved in human digestion. It plays a role of turning trypsinogen to its active form trypsin, and indirectly activates the pancreatic digestive enzymes. Enterokinase is a specific protease that cleaves after a lysine preceded by four aspartic acids: Asp-Asp-Asp-Asp-Lys. Enterokinase will not work if the recognition site is followed by a proline.

**Form**      Sterile Filtered White lyophilized (freeze-dried) powder.

**Bio-activity**      5 IU/μL

**Molecular Mass**      Theoretical MW: 22.7 kDa.Apparent MW: 40.0 kDa, observed by reducing SDS-PAGE.

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<b>Endotoxin</b>	< 1 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% by SDS-PAGE analyses.
<b>Unit Definition</b>	One unit is defined as the amount of enzyme needed to cleave 50 μg of fusion protein in 16 hours to 95% completion at 22 centigrade in a buffer containing 25mM Tris-HCl, pH 8.0.
<b>Storage</b>	Recombinant Bovine Enterokinase (rbEK) remains stable up to 1 year at -20 centigrade from date of receipt. It will remain stable at 37 centigrade for one week without losing any activity. Please avoid freeze-thaw cycles.
<b>Storage Buffer</b>	Sterile liquid solution contains 20mM Tris, 200mM NaCl, 2mM CaCl <sub>2</sub> , 50% glycerol, pH 7.4.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">TMPRSS15 transmembrane serine protease 15 [ Bos taurus (cattle) ]</a>
<b>Official Symbol</b>	<a href="#">TMPRSS15</a>
<b>Synonyms</b>	TMPRSS15; transmembrane serine protease 15; PRSS7; enteropeptidase; enterokinase; protease, serine, 7 (enterokinase); serine protease 7; transmembrane protease, serine 15; EC 3.4.21.9
<b>Gene ID</b>	<a href="#">282009</a>
<b>mRNA Refseq</b>	<a href="#">NM_174439</a>

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**Protein Refseq** NP\_776864

**UniProt ID** P98072

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